

***LineUp With Math™* Alignment**
Idaho Achievement Standards
Mathematics 2-1-06

Standard 1: Number and Operation

Goal 1.1: Understand and use numbers.

Objective(s)

9.M.1.1.2 Use positive and negative numbers, absolute value, fractions, decimals, percentages, and scientific notation including application in real world situations. (347.01.a)

***LineUp With Math™* Activities**

--Use percent relationships to resolve distance, rate, time conflicts in air traffic control.

Standard 2: Concepts and Principles of Measurement

Goal 2.2: Apply the concepts of rates, ratios, and proportions.

Objective(s)

9.M.2.2.1 Use rates, ratios, proportions, and map scales in problem-solving situations. (349.03.a)

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

9.M.2.2.2 Apply concepts of rates and direct and indirect measurements.

--Identify and resolve distance, rate, time conflicts in air traffic control problems by varying plane speeds or changing plane routes.

Goal 2.3 Apply dimensional analysis.

Objective(s)

9.M.2.3.1 Use customary and metric units and their relationship to one another and to real world applications involving length, area, capacity, weight, time and temperature. (349.04.a)

***LineUp With Math™* Activities**

--Identify and resolve distance, rate, time conflicts in air traffic control problems by varying plane speeds or changing plane routes.

Goal 2.4 Apply appropriate techniques and tools to determine measurements.

Objective(s)

9.M.2.4.1 Determine and use appropriate units. (349.01.a)

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.

Standard 5: Data Analysis, Probability, and Statistics

Goal 5.5: Make predictions or decisions based on data.

Objective(s)

9.M.5.5.2 Use appropriate tools/technology to conduct simulations and employ graphical models to make predictions or decisions based on data. (352.05.a)

LineUp With Math™ Activities

--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.

--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.